I;

WE CLAIM:

1. A compound of formula I:

2.

$$R^5$$
 R^5
 R^3

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or a pharmaceutically acceptable acid addition salt thereof, where;

X is
$$-C(R^4) = \text{ or } -N =;$$

Ar is phenyl, substituted phenyl, heterocycle, or substituted heterocycle;

R¹ and R² are independently hydrogen or C₁-C₃ alkyl;

R³ is hydrogen, fluoro, or methyl;

when X is $-C(R^4)$ =, R^4 is hydrogen, fluoro, or methyl, provided that no more than one of R^3 and R^4 may be other than hydrogen; and

R⁵ is hydrogen, methyl, or ethyl.

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- 2. The compound according to Claim 1 wherein Ar is phenyl or substituted phenyl.
- 3. The compound according to any one of Claims 2 wherein Ar is substituted phenyl and wherein the phenyl group is substituted with one to three halo substituents; or substituted with one to two substituents independently selected from the group

consisting of halo, C₁-C₄ alkyl, C₁-C₄ alkoxy, C₁-C₄ alkylthio, cyano, and nitro, wherein each alkyl, alkoxy and alkylthio substituent can be further substituted independently one to five halo groups each independently selected from fluoro and chloro.

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- 4. The compound according to Claim 2 wherein Ar is substituted phenyl and wherein the phenyl group is substituted with 1 to 3 halo groups.
- 5. The compound according to Claim 1 wherein Ar is heterocycle or substituted heterocycle, wherein the heterocycle is selected from the group consisting of furanyl, thiophenyl, pyrrolyl, pyridinyl, *N*-methylpyrrolyl, pyrimidinyl, pyrazinyl, benzofuranyl, benzothiophenyl, and indolyl; and

wherein substituted heterocycle is taken to mean the ring moiety is substituted with one to three halo substituents; or

substituted with one to two substituents independently selected from the group consisting of halo, C₁-C₄ alkyl, C₁-C₄ alkoxy, C₁-C₄ alkylthio, cyano, and nitro, wherein each alkyl, alkoxy and alkylthio substituent can be further substituted independently one to five halo groups each independently selected from fluoro and chloro.

- 6. The compound according to any one of Claims 1 5 wherein R⁵ is hydrogen.
- 7. The compound according to any one of Claims 1-6 wherein R^1 and R^2 are methyl.
- 8. A pharmaceutical composition comprising a compound according to any one of Claims 1 7 and a pharmaceutical carrier, diluent, or excipient.
- 9. A method for activating 5-HT_{1F} receptors in a mammal comprising administering to a mammal in need of such activation an effective amount of a compound of formula I:

I;

or a pharmaceutically acceptable acid addition salt thereof, where;

X is
$$-C(R^4) = \text{ or } -N =;$$

Ar is phenyl, substituted phenyl, heterocycle, or substituted heterocycle;

R¹ and R² are independantly hydrogen or C₁-C₃ alkyl;

R³ is hydrogen, fluoro, or methyl;

when X is $-C(R^4)$ =, R^4 is hydrogen, fluoro, or methyl, provided that no more than one of R^3 and R^4 may be other than hydrogen; and

10 R⁵ is hydrogen, methyl, or ethyl.

- 10. The method according to Claim 9 wherein the mammal is a human.
- 11. A method for inhibiting dural protein extravasation in a mammal
 15 comprising administering to a mammal in need of such inhibition an effective amount of a compound of formula I:

$$R^5$$
 R^5
 R^2
 R^3
 R^1
 R^2

or a pharmaceutically acceptable acid addition salt thereof, where;

X is
$$-C(R^4) = or -N=$$
;

Ar is phenyl, substituted phenyl, heterocycle, or substituted heterocycle;

R¹ and R² are independently hydrogen or C₁-C₃ alkyl;

R³ is hydrogen, fluoro, or methyl;

when X is $-C(R^4)$ =, R^4 is hydrogen, fluoro, or methyl, provided that no more than one of R^3 and R^4 may be other than hydrogen; and

R⁵ is hydrogen, methyl, or ethyl.

- 12. The method according to Claim 11 wherein the mammal is a human.
- 13. A method for the treatment or prevention of migraine in a mammal comprising administering to a mammal in need of such treatment or prevention an effective amount of a compound of formula I:

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or a pharmaceutically acceptable acid addition salt thereof, where;

X is
$$-C(R^4) = \text{ or } -N =;$$

Ar is phenyl, substituted phenyl, heterocycle, or substituted heterocycle;

R¹ and R² are independently hydrogen or C₁-C₃ alkyl;

R³ is hydrogen, fluoro, or methyl;

when X is $-C(R^4)$ =, R^4 is hydrogen, fluoro, or methyl, provided that no more than one of R^3 and R^4 may be other than hydrogen; and

R⁵ is hydrogen, methyl, or ethyl.

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14. The method according to Claim 13 wherein the mammal is a human.

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- 15. A compound according to any one of Claims 1 7 for use as a pharmaceutical.
- 16. A compound according to any one of Claims 1 7 for use in activating 5 5-HT_{IF} receptors in a mammal.
 - 17. A compound according to any one of Claims 1 7 for use in inhibiting dural protein extravasation in a mammal.
- 10 18. A compound according to any one of Claims 1 7 for use in the treatment or prevention of migraine in a mammal.
 - 19. A compound according to any one of Claims 16-18 wherein the mammal is a human.
 - 20. The use of a compound according to any one of Claims 1 7 in the manufacture of a medicament for the activation of 5-HT_{1F} receptors in a mammal.
- 21. The use of a compound according to any one of Claims 1 7 in the manufacture of a medicament for the inhibition of dural protein extravasation in a mammal.
 - 22. The use of a compound according to any one of Claims 1 7 in the manufacture of a medicament for the treatment or prevention of migraine in a mammal.
 - 23. The use of a compound according to any one of Claims 1 7 in the manufacture of a medicament for the treatment of a disorder associated with dysfunction of the 5-HT_{1F} receptors in a mammal.
- The use according to Claim 23 wherein the 5-HT_{1F} receptor associated disorder is dural protein extravasation.

- 25. The use according to Claim 26 wherein the 5- HT_{1F} receptor associated disorder is migraine.
- 26. The use according to any one of Claims 20-25 wherein the mammal is a human.

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27. A pharmaceutical composition adapted for the treatment or prevention of migraine comprising a compound according to any one of Claims 1 - 7 in combination with one or more pharmaceutically acceptable excipients, carriers, or diluents therefore.